

L Number	Hits	Search Text	DB	Time stamp
1	7241	(438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:56
2	1303	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and barrier and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:56
3	595	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:56
4	167	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 10:03
5	69	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He)) and (vacuum or pressure).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:58
6	3	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He)) and (vacuum or pressure).clm.) and (pretreat\$4 or pre-treat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 09:59
9	3	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He)).clm.) and (non-reactive or non-plasma)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 10:04
10	45	("3012861" "3178392" "3832202" "3920865" "4705725" "4771328" "5103285" "5194333" "5314845" "5364800" "5376595" "5470801" "5559367" "5675187" "5688724" "5818071" "5847461" "5858879" "5864172" "5874367" "5874745" "5882489" "5904154" "5915203" "5930655" "5939763" "5989998" "6025263" "6028015" "6037248" "6043145" "6043167" "6051477" "6054379" "6063702" "6066574" "6114259" "6147012" "6177302" "6204192" "6215087" "6232658" "6303047" "6245666" "6410419").PN.	USPAT	2003/05/27 10:10
7	58	((438/586 or 205/186 or 438/660 or 438/622 or 438/687 or 382/145 or 438/680 or 438/683 or 438/622 or 438/632).ccls.) and (barrier and copper).clm.) and ((hydrogen adj gas) or (argon adj gas) or (helium adj gas)) or (H2 or Ar or He)).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 10:51

14	12	5,851,367	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/27 10:52
-	3380	(metal and hydrogen and plasma) and 438/\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/12/10 15:06
-	811	((metal and hydrogen and plasma) and 438/\$) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/15 15:05
-	16	((metal and hydrogen and plasma) and 438/\$) and copper) and pre-treat\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/15 15:17
-	18	((metal and hydrogen and plasma) and 438/\$) and pre-treat\$) and helium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/15 15:17
-	44	("4173661" "4480010" "4844775" "5017403" "5127988" "5202280" "5232871" "5296404" "5308655" "5312774" "5314603" "5352623" "5451258" "5576071" "5593511").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/15 15:22
-	48	((metal and hydrogen and plasma) and 438/\$) and pre-treat\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 12:30
-	44	("4173661" "4480010" "4844775" "5017403" "5127988" "5202280" "5232871" "5296404" "5308655" "5312774" "5314603" "5352623" "5451258" "5576071" "5593511").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 12:16
-	25	(plasma adj anneal) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:44
-	38	("5142438" "5362632" "5405796" "5409855" "5479316" "5508881" "5576071" "5685951" "5696394" "5741712" "5754390" "5773363" "6010940" "5142438" "5362632" "5405796" "5409855" "5479316" "5508881" "5576071" "5685951" "5696394" "5741712" "5754390" "5773363" "6010940").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:34
-	43416	adhesion and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:44
-	593	(adhesion and copper) and (barrier adj metal)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:45
-	473	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:46

-	3	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)) and (pre-treat\$).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:47
-	59	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)) and (heat).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:47
-	160	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)) and temperature.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:48
-	26	((adhesion and copper) and (barrier adj metal)) and (temperature or anneal)) and temperature.clm.) and (barrier adj metal).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 13:48
-	9	("5739579" "5847463" "5886410").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:10
-	13	("4789648" "5447887" "5693563" "6136680" "6146988").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:13
-	25	("4789648" "5011782" "5334554" "5447887" "5635425" "5693563" "5902122" "5994200" "6048764").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:15
-	38	5447887.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:21
-	0	6339258.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:35
-	30	("5447887" "5470789" "5506449" "5614437" "5665628" "5668411" "5679980" "5686760" "5696018" "6110598").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:36
-	13	5668411.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:44
-	3	6136682.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:51
-	17	5899740.URPN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 14:59
-	3	810221.ap.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/02/20 15:33

-	30	(pre-treatment or pretreatment) and (barrier adj metal adj layer)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/02/20 15:35
-	144	438/586 and Barrier.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:36
-	20	(438/586 and Barrier.clm.) and (hydrogen or argon or helium).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:37
-	10	((438/586 and Barrier.clm.) and (hydrogen or argon or helium).clm.) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:37
-	8	((438/586 and Barrier.clm.) and (hydrogen or argon or helium).clm.) and copper.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:44
-	1	438/586 and (hydrogen and helium and argon).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/11/15 16:44
-	1758	hydrogen and argon and helium and barrier	USPAT	2002/12/10 15:14
-	192	(hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.	USPAT	2002/12/10 15:15
-	44	((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.	USPAT	2002/12/10 15:15
-	21	((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper	USPAT	2002/12/10 15:15
-	13	((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.	USPAT	2002/12/10 15:26
-	10	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and plasma	USPAT	2002/12/10 15:31
-	8	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and plasma) and "200"	USPAT	2002/12/10 15:45
-	9	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and plasma) and heat\$3	USPAT	2002/12/10 15:45
-	10	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and heat\$3	USPAT	2002/12/10 15:45
-	8	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and heat\$3.clm.	USPAT	2002/12/10 15:53
-	10	(((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and temperature.clm.	USPAT	2002/12/10 15:48

-	11	((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and time	USPAT	2002/12/10 15:48
-	4	((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and (seconds or minute or minutes).clm.	USPAT	2002/12/10 15:49
-	7	((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and heat\$3.clm.) and ((((hydrogen and argon and helium and barrier) and (hydrogen and argon and helium).clm.) and barrier.clm.) and copper.clm.) and temperature.clm.)	USPAT	2002/12/10 15:54
-	13	(US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6348407-\$ or US-5380567-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-6333248-\$).did.	USPAT	2002/12/11 12:48
-	0	((US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6348407-\$ or US-5380567-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-6333248-\$).did.) and (tape adj test)	USPAT	2002/12/11 12:48
-	91	barrier and copper and (tape adj test)	USPAT	2002/12/11 12:48
-	24	(barrier and copper and (tape adj test)) and (hydrogen or argon or helium).clm.	USPAT	2002/12/11 12:49
-	0	((barrier and copper and (tape adj test)) and (hydrogen or argon or helium).clm.) and tape.clm.	USPAT	2002/12/11 12:49
-	0	((barrier and copper and (tape adj test)) and (hydrogen or argon or helium).clm.) and test.clm.	USPAT	2002/12/11 12:49
-	4	((barrier and copper and (tape adj test)) and (hydrogen or argon or helium).clm.) and copper.clm.	USPAT	2002/12/11 12:49
-	940	438/648	USPAT	2002/12/13 07:56
-	307	438/648 and barrier.clm.	USPAT	2002/12/13 07:56
-	125	(438/648 and barrier.clm.) and copper.clm.	USPAT	2002/12/13 07:56
-	35	((438/648 and barrier.clm.) and copper.clm.) and (hydrogen or argon or helium or nitrogen).clm.	USPAT	2002/12/13 07:58
-	14	((438/648 and barrier.clm.) and copper.clm.) and (hydrogen or argon or helium or nitrogen).clm.) and (treatment or pretreatment or pre-treatment)	USPAT	2002/12/13 07:58
-	7	((438/648 and barrier.clm.) and copper.clm.) and (hydrogen or argon or helium or nitrogen).clm.) and (treatment or pretreatment or pre-treatment).clm.	USPAT	2002/12/13 08:01
-	345	438/785	USPAT	2002/12/13 08:03
-	26	438/785 and copper.clm.	USPAT	2002/12/13 08:03
-	11	(438/785 and copper.clm.) and (nitrogen or hydrogen or helium or argon).clm.	USPAT	2002/12/13 08:04
-	5	((438/785 and copper.clm.) and (nitrogen or hydrogen or helium or argon).clm.) and (treatment or pretreatment or pre-treatment)	USPAT	2002/12/13 08:04
-	2	((438/785 and copper.clm.) and (nitrogen or hydrogen or helium or argon).clm.) and (treatment or pretreatment or pre-treatment).clm.	USPAT	2002/12/13 08:04

-	16	(US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.	USPAT	2002/12/13 08:06
-	16	((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier	USPAT	2002/12/13 08:06
-	15	((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier) and copper.clm.	USPAT	2002/12/13 08:07
-	7	((((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier) and copper.clm.) and (treatment or pretreatment or pre-treatment)	USPAT	2002/12/13 08:07
-	3	((((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier) and copper.clm.) and (treatment or pretreatment or pre-treatment).clm.	USPAT	2002/12/13 08:07
-	3	((((US-6348407-\$ or US-6333248-\$ or US-6274483-\$ or US-6008124-\$ or US-6455421-\$ or US-6448185-\$ or US-6475913-\$ or US-6410433-\$ or US-6410432-\$ or US-6350675-\$ or US-6096646-\$ or US-6016000-\$ or US-5380567-\$ or US-6461675-\$ or US-5622608-\$ or US-6153519-\$).did.) and barrier) and copper.clm.) and (treatment or pretreatment or pre-treatment).clm.) and (hydrogen or nitrogen or helium or argon).clm.	USPAT	2002/12/13 08:08
-	16	(US-6153519-\$ or US-5622608-\$ or US-6461675-\$ or US-5380567-\$ or US-6016000-\$ or US-6096646-\$ or US-6350675-\$ or US-6410432-\$ or US-6410433-\$ or US-6448185-\$ or US-6475913-\$ or US-6455421-\$ or US-6008124-\$ or US-6274483-\$ or US-6333248-\$ or US-6348407-\$).did.	USPAT	2003/05/19 12:41

-	16	((US-6153519-\$ or US-5622608-\$ or US-6461675-\$ or US-5380567-\$ or US-6016000-\$ or US-6096646-\$ or US-6350675-\$ or US-6410432-\$ or US-6410433-\$ or US-6448185-\$ or US-6475913-\$ or US-6455421-\$ or US-6008124-\$ or US-6274483-\$ or US-6333248-\$ or US-6348407-\$).did.) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 12:41
-	16	((US-6153519-\$ or US-5622608-\$ or US-6461675-\$ or US-5380567-\$ or US-6016000-\$ or US-6096646-\$ or US-6350675-\$ or US-6410432-\$ or US-6410433-\$ or US-6448185-\$ or US-6475913-\$ or US-6455421-\$ or US-6008124-\$ or US-6274483-\$ or US-6333248-\$ or US-6348407-\$).did.) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 12:42
-	14	((US-6153519-\$ or US-5622608-\$ or US-6461675-\$ or US-5380567-\$ or US-6016000-\$ or US-6096646-\$ or US-6350675-\$ or US-6410432-\$ or US-6410433-\$ or US-6448185-\$ or US-6475913-\$ or US-6455421-\$ or US-6008124-\$ or US-6274483-\$ or US-6333248-\$ or US-6348407-\$).did.) and copper) and (gas or vacuum).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/19 12:42
-	7	("5576052" "5851367" "5891513" "5939788" "6077780" "6136707" "6261954").PN.	USPAT	2003/05/19 13:33
-	9	5851367.URPN.	USPAT	2003/05/19 13:44
-	7	6271136.URPN.	USPAT	2003/05/19 13:51
-	0	6534404.URPN.	USPAT	2003/05/19 13:58
-	0	6436826.URPN.	USPAT	2003/05/19 13:58
-	0	6475913.URPN.	USPAT	2003/05/19 13:58
-	6	("6451682" "6306756" "6495461").pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:31
-	0	438/586.ccls. and (gas adj treatment)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:32
-	152	438/\$5.ccls. and (gas adj treatment)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:32
-	44	(438/\$5.ccls. and (gas adj treatment)) and barrier	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:32
-	18	((438/\$5.ccls. and (gas adj treatment)) and barrier) and copper	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:32
-	14	(438/\$5.ccls. and (gas adj treatment)) and barrier.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:33
-	12	((438/\$5.ccls. and (gas adj treatment)) and barrier.clm.) and gas.clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/20 08:34

-	1	"6534404"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 10:54
-	1	"6567541"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 10:58
-	8	"6204179"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:07
-	1	"6548395"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:07
-	13	5,989,999	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:11
-	2	"6303495"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:11
-	1	"6562219"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/26 11:11